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NOTICE OF ALLOWANCE AND FEE(S) DUE

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05/19/2005

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 EXAMINER

KIKNADZE, IRAKLI

ART UNIT PAPER NUMBER

2882

DATE MAILED: 05/19/2005

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION N	
10/781,842	02/20/2004	Noriyuki Kaifu	03500.010380.4	5483

TITLE OF INVENTION: PHOTOELECTRIC CONVERTER, ITS DRIVING METHOD, AND SYSTEM INCLUDING THE PHOTOELECTRIC CONVERTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	· DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	08/19/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 3

PTOL-85 (Rev. 12/04) Approved for use through 04/30/2007.

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Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE	15. E ADDRESS (Note: Use Block 1 fo	r any change of address)		Note: A certificate	of mailing can only be used f	or domestic mailings of the	
				papers. Each additio	of mailing can only be used f his certificate cannot be used nal paper, such as an assignm	for any other accompanying ent or formal drawing, mus	
	590 OS/19/200S			have its own certific	ate of mailing or transmission.		
	CELLA HARPER &	SCINTO		C	ertificate of Mailing or Tran	smission	
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NEW YORK, NY	10112			addressed to the M transmitted to the US	ail Stop ISSUE FEE address SPTO (703) 746-4000, on the	s above, or being facsimile date indicated below.	
			•			(Depositor's name)	
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APPLICATION NO.	FILING DATE		FIRST NAMED IN	IVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/781,842	02/20/2004		Noriyuki K	aifu	03500.010380.4	5483	
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APPLN. TYPE	SMALL ENTITY	ISSUE F	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$140	0	- \$300	\$1700	08/19/2005	
EXAM	INER	ART UN	at	CLASS-SUBCLASS		• •	
KIKNADZ	E, IRAKLI	2882	!	250-370090			
1. Change of correspondence CFR 1.363).	address or indication of "F	ee Address* (37		on the patent front page,			
Change of correspond	ence address (or Change of	Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,				
Address form PTO/SB/12	(2) attached.		(2) the name	of a single firm (having a	a member a 2		
"Fee Address" indicat PTO/SB/47; Rev 03-02 of Number is required.	ion (or "Fee Address" Indic or more recent) attached. Us	ation form e of a Customer	2 registered atto	orney or agent) and the na atent attorneys or agents. ie will be printed.	mes of up to		
3. ASSIGNEE NAME AND	RESIDENCE DATA TO E	BE PRINTED ON					
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Please check the appropriate	assignee category or catego	ories (will not be pr	rinted on the pater	nt): 🔲 Individual 🔘	Corporation or other private gr	oup entity Government	
4a. The following fee(s) are	enclosed:	4	. Payment of Fee	* *		5	
Issue Fee		_	_	ne amount of the fee(s) is			
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☐ Advance Order - # of	Copies		Deposit Account		charge the required fee(s), or extra c	copy of this form).	
5. Change in Entity Status			D		ATT ENTERTY 0 22.0	PR 1 27(-202)	
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	ublication Fee (if required)	will not be accepted	d from anyone ot		gistered attorney or agent; or t		
Authorized Signature				Date			
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This collection of informatio an application. Confidentiali submitting the completed ap this form and/or suggestions Box 1450, Alexandria, Virginia 22313- Under the Panerwork Reduct	in is required by 37 CFR 1.3 ty is governed by 35 U.S.C plication form to the USPT for reducing this burden, si nia 22313-1450. DO NOT 1450. tion Act of 1995, no persons	III. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR (on is required to o 1.14. This collect depending upon e Chief Informati COMPLETED FO spond to a collecti	btain or retain a benefit by ion is estimated to take 12 the individual case. Any on Officer, U.S. Patent an DRMS TO THIS ADDRE ion of information unless i	the public which is to file (and a minutes to complete, includit comments on the amount of tid Trademark Office, U.S. Dep SS. SEND TO: Commissioner it displays a valid OMB control	d by the USPTO to process ng gathering, preparing, and me you require to complete artiment of Commerce, P.O. for Patents, P.O. Box 1450, il number.	



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FITZPATRICK CELLA HARPER & SCINTO		KIKNADZE, IRAKLI		
30 ROCKEFELLE NEW YORK, NY			ART UNIT	PAPER NUMBER
			2882	•
			DATE MAILED: 05/19/200:	5

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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A	pplication No.	Applicant(s)	
11	0/781,842	KAIFU ET AL.	
Notice of Allowability E	xaminer	Art Unit	
ir	akli Kiknadze	2882	
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS (OI herewith (or previously mailed), a Notice of Allowance (PTOL-85) or HOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGH of the Office or upon petition by the applicant. See 37 CFR 1.313 and	R REMAINS) CLOSED in the other appropriate communing trans. This application is subdied MPEP 1308.	nis application. If not included cation will be mailed in due co	urse. THIS
. A This communication is responsive to the Amendment filed 04/	<u> 18/2005</u> .		
P. ☑ The allowed claim(s) is/are <u>39-41</u> .			
3. A The drawings filed on <u>02 February 2004</u> are accepted by the t	Examiner.	•	
 Acknowledgment is made of a claim for foreign priority under a)	een received.		
2. Certified copies of the priority documents have be			
 Copies of the certified copies of the priority document of the priority document of the priority document. 	nents have been received i	n this national stage application	i from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of to noted below. Failure to timely comply will result in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this communication to file a iT of this application.	reply complying with the requi	ements
5. A SUBSTITUTE OATH OR DECLARATION must be submitte INFORMAL PATENT APPLICATION (PTO-152) which gives r	d. Note the attached EXAM reason(s) why the oath or d	IINER'S AMENDMENT or NOT eclaration is deficient.	TCE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must b	e submitted.		
(a) including changes required by the Notice of Draftsperson	's Patent Drawing Review (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date	mendment / Comment or in	the Office action of	•
Identifying indicia such as the application number (see 37 CFR 1.84) each sheet. Replacement sheet(s) should be labeled as such in the	(c)) should be written on the header according to 37 CFR	drawings in the front (not the ba 1.121(d).	ck) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO 	of BIOLOGICAL MATER R THE DEPOSIT OF BIOL	RIAL must be submitted. Not OGICAL MATERIAL.	e the
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Attachment(s)	5 Mating of info	mal Patent Application (PTO-1	152)
I. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Sun		U2)
Information Disclosure Statements (PTO-1449 or PTO/SB/08),	Paper No./M	ail Date <u>04252005</u> . mendment/Comment	
Paper No./Mail Date			
1. Examiner's Comment Regarding Requirement for Deposit	<u> </u>	atement of Reasons for Allowa	ınce
of Biological Material	9. Other		
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Application/Control Number: 10/781,842

Art Unit: 2882

DETAILED ACTION

EXAMINER'S AMENDMENT

- An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with John A. Krause (Reg. No. 24, 613) on April 27, 2005.
- 3. The application has been amended as follows:
 Claim 42, line 5, " a shift resistor " should read a shift register —.
 Claim 43, line 2, " siad first " should read said first —.
- 4. In response to the Office action dated December 15, 2005 the Amendment has been received on April 16, 2005.

Claims 39-41 have been canceled.

Claim 42 has been amended.

Claims 42-44 are currently pending in this application.

Allowable Subject Matter

5. Claims 42-44 are allowed.

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Application/Control Number: 10/781,842

Art Unit: 2882

6. The following is an examiner's statement of reasons for allowance:

Claims 42-44 are allowed because prior art fails to teach or make obvious an X-ray detector comprising: first flexible circuit substrate means that mounts a shift resistor for driving the thin film transistors; and second flexible circuit substrate means which mounts an integrated circuit IC for detecting a signal from the photoelectric converter as claimed in claim 42. Claims 43 and 44 are allowed by virtue of their dependence.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mizutani et al. (US Patent 5,812,284) teaches an arrangement comprising switch units for transferring signals from individual photoelectric converting elements formed by thin-film transistors (TFTs) and a shift register for sequentially driving these transfer TFTs time serially formed on the same substrate but fails to teach flexible circuit substrate means that mounts a shift resistor for driving the thin film transistors; and second flexible circuit substrate means which mounts an integrated circuit IC for detecting a signal from the photoelectric converter.

Art Unit: 2882

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irakli Kiknadze whose telephone number is 571-272-2493. The examiner can normally be reached on 9:00- 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on 571-272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Irakli Kiknadze April 26, 2005

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EDWARD), GLICK CLIDERVISORY PATENT EXAMINER